

A1
a control unit for controlling said optical system [to direct said beam of visible light to reach specified points on said target plane] according to a specified program and thereby directing said beam of visible light to specified points on said target plane successively at a high frequency such that a stationary image of a closed line is seen.

A2
4. (Amended) The apparatus of claim 1 further comprising[:
an x-ray source capable of emitting an x-ray beam to said target plane; and]
a transparent mirror disposed between said x-ray source and said target plane, said beam of visible light from said optical system being reflected by said transparent mirror, said x-ray source and said visible light source being at equivalent positions with respect to said transparent mirror.

5. (Amended) An x-ray treatment method comprising the steps of:
determining a target region to be treated by radiation inside a patient's body;
[defining a line relative to said target region];
causing a visible light beam to be emitted from a light source and to pass through an optical system; [and]
controlling said optical system to [cause] direct said visible light beam[, which has passed through said optical system, to trace said defined line] to specified points successively at a high frequency such that a stationary image of a closed line indicating said target region is seen; and exposing said target region to an x-ray beam for medical treatment.

Please cancel claim 6.

Please amend claims 8 and 9 as follows:

8. (Amended) The method of claim [6] 5 wherein said target region is determined by irradiating said patient's body with [an] a diagnostic x-ray beam emitted from an x-ray source.

A3
9. (Amended) The method of claim [6] 8 wherein said patient's body is irradiated by said diagnostic x-ray beam through a transparent mirror, said visible light beam, which has passed through said optical system, is reflected by said transparent mirror to reach said [line] specified

A3 points, and said x-ray source and said light source [being] are at equivalent positions with respect to said transparent mirror.

Please add the following new claims:

- A4
- 11. An apparatus for x-ray treatment comprising:
a visible light source which emits a beam of visible light;
an optical system capable of directing said beam of visible light selectably onto different points on a target plane;
a control unit for controlling said optical system to direct said beam of visible light to reach specified points on said target plane according to a specified program;
an x-ray source capable of emitting an x-ray beam to said target plane; and
a data collecting means for receiving said x-ray beam.--
- 12. The method of claim 5 wherein the step of determining a target region to be treated by radiation inside a patient's body further comprises:
causing a beam of x-rays to pass through said patient's body;
receiving said beam of x-rays by a data collecting means after the beam has passed through the patient's body; and
analyzing the data collected by said data collecting means.--
- 13. The method of claim 12 wherein the data collecting means receives said beam of x-rays in the form of a set of images.--
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- 14. The method of claim 12 wherein the data collecting means receives said beam of x-rays in the form of digital data.--
- 15. The method of claim 5 further comprising the step of collimating said x-ray beam for medical treatment according to said closed line.--